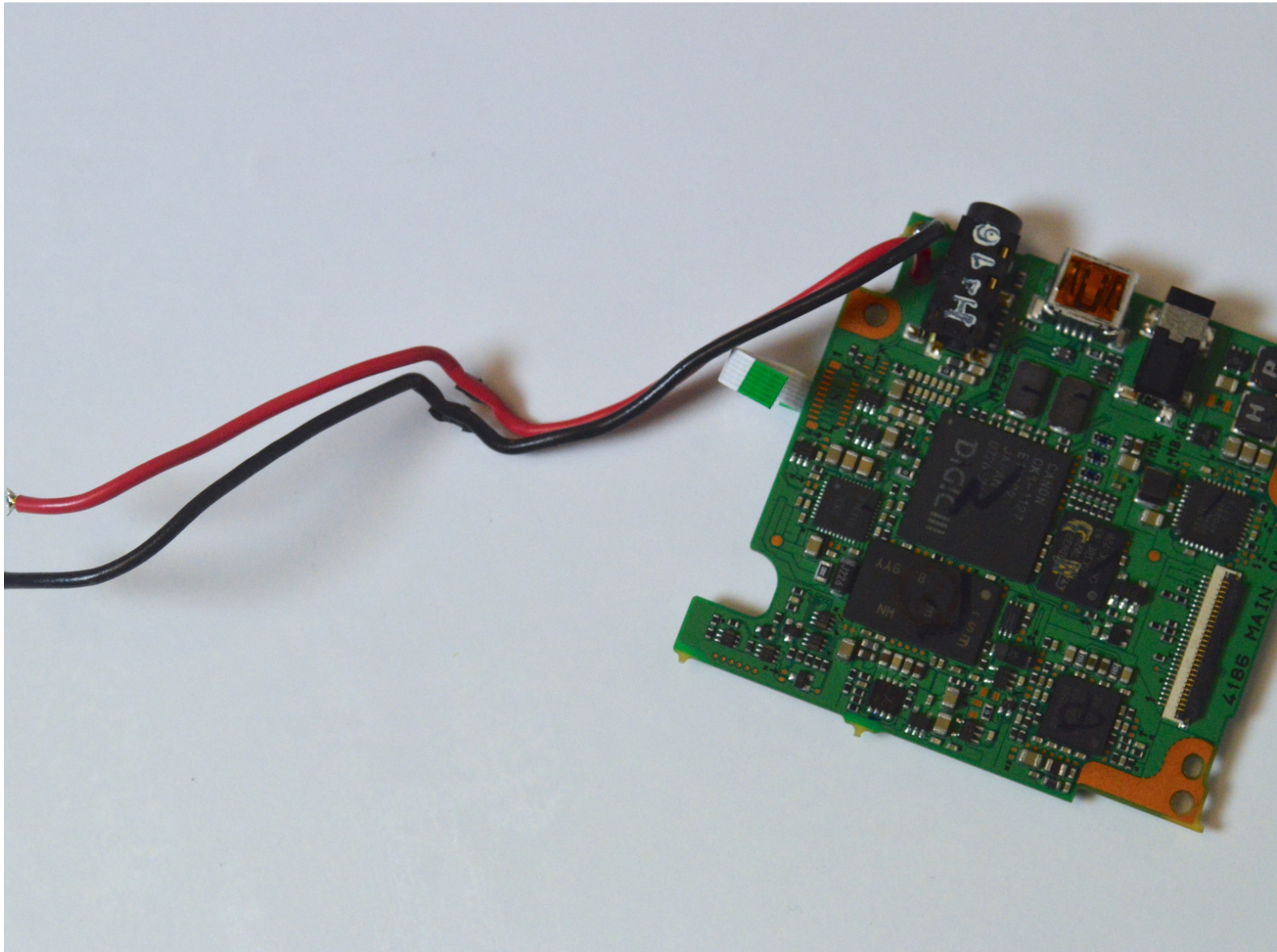




Canon Powershot A720 IS Motherboard Replacement

This guide will show how to replace the motherboard.

Written By: Jamie



INTRODUCTION

This guide will allow the user to replace the motherboard. Please make sure that you are certain that the motherboard is the correct part that needs to be replaced.



TOOLS:

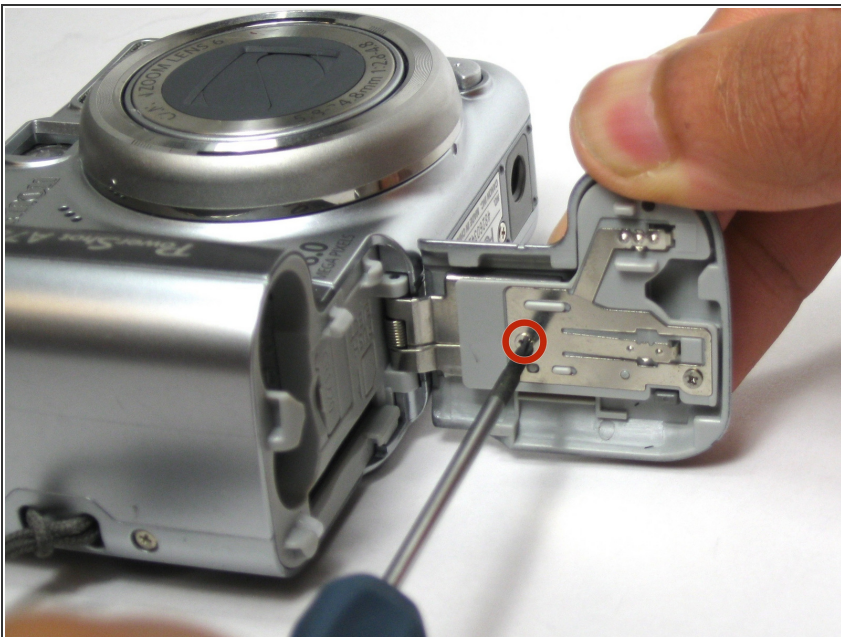
- [Magnetic Project Mat](#) (1)
 - [Phillips #00 Screwdriver](#) (1)
 - [iFixit Opening Tools](#) (1)
 - [Soldering Station](#) (1)
 - [Spudger](#) (1)
 - [Static Bracelet](#) (1)
 - [Tweezers](#) (1)
-

Step 1 — Motherboard



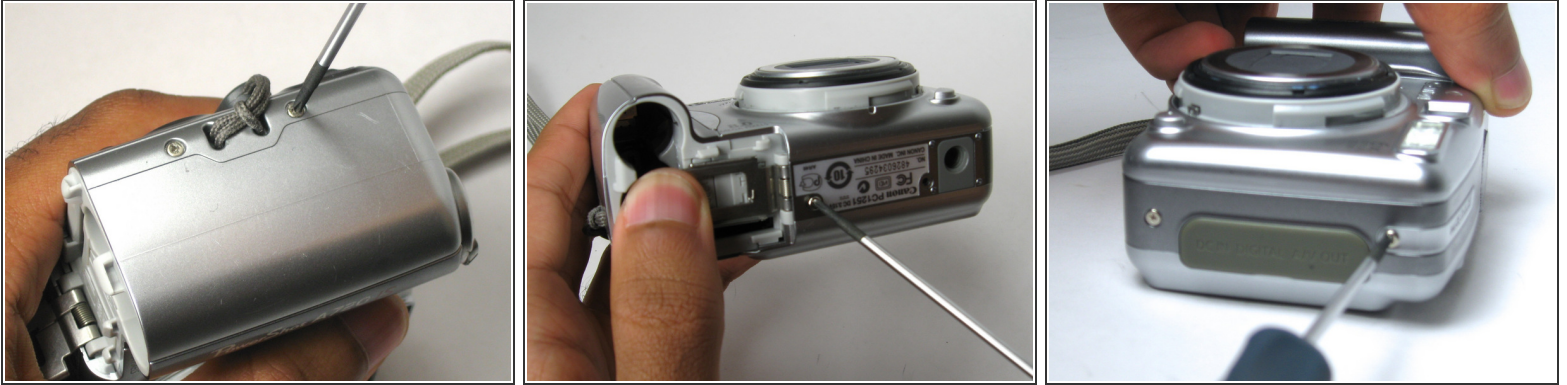
- If the initial shutter button dislodge does not work, we have to disassemble the camera.
- On the bottom of the camera, use your thumb and push the battery lock up to open. The battery compartment door should then spring open and batteries will slide out.

Step 2



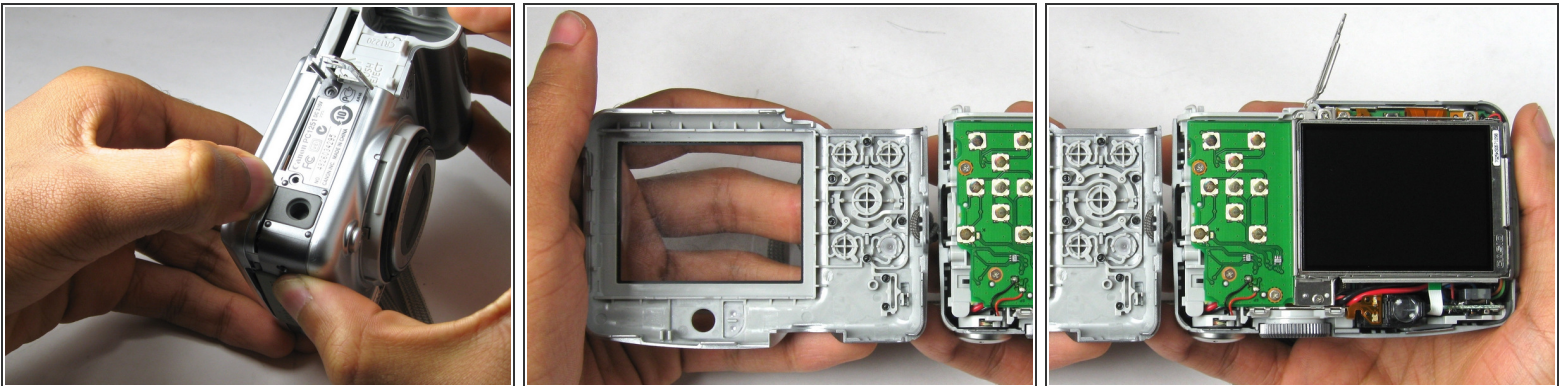
- Place the camera down so that the lens is facing up.
- Next, use the Phillips #00 Precision Screwdriver to unscrew the inner most 4 mm phillips head screw. This will remove the door from the camera.
- ☑ Always place screws on the the Magnetic Mat and write the size and location of where they were removed from with a dry erase marker.

Step 3



- Remove the six 4 mm phillips head screws that are found on both the sides and bottom of the camera with the Phillips #00 Precision Screwdriver.

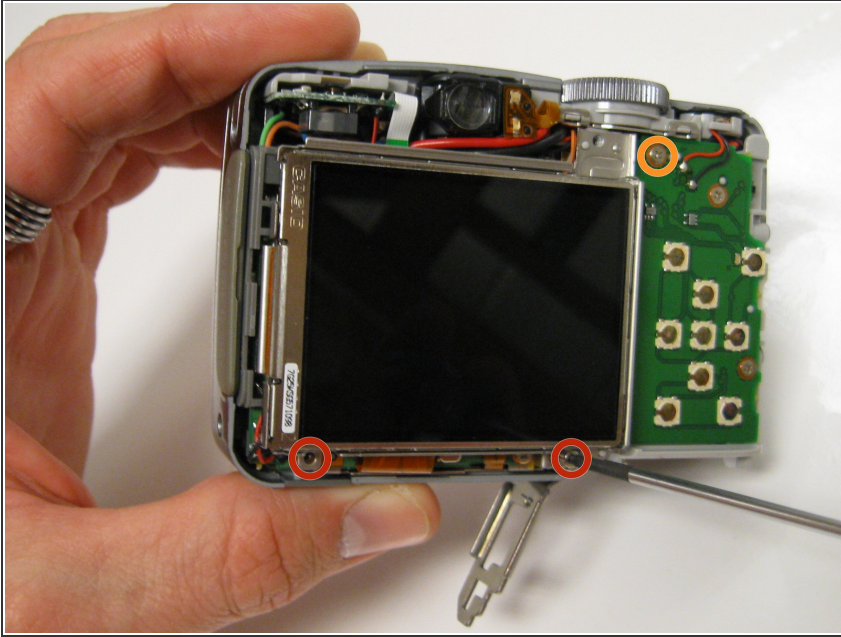
Step 4



- Slowly and gently pry open with your hands to separate the back case panel from the rest of the camera.

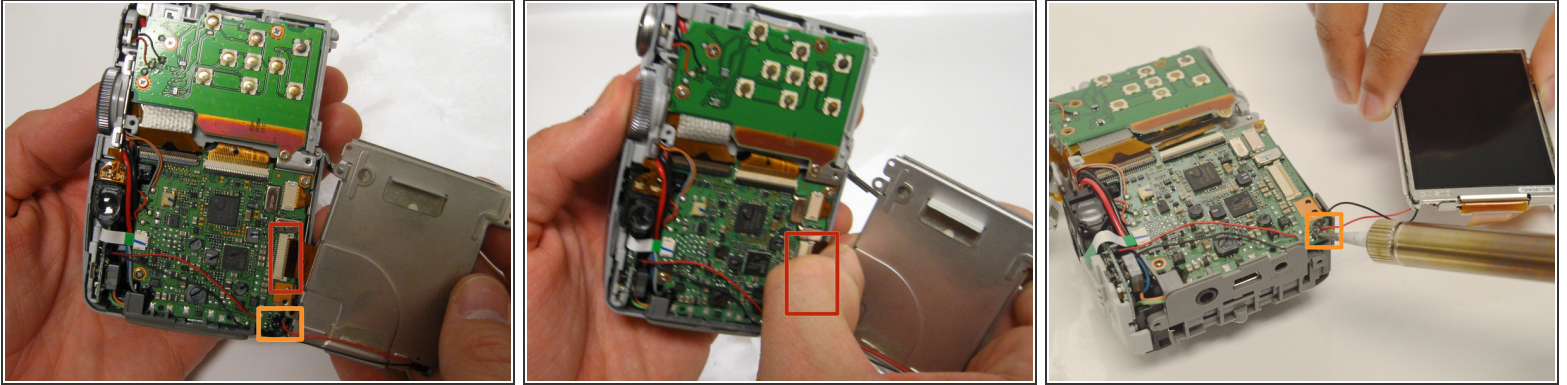
 The gray rubber cover labeled DC IN DIGITAL A/V OUT may fall out.

Step 5




- Unscrew the two 3 mm screws that are below the LCD Screen Mount with the Phillips #00 Precision Screwdriver.
- Unscrew the top 4 mm screw with the Phillips #00 Precision Screwdriver.


Step 6




- Carefully lift and turnover the LCD Screen so that you are able to see the motherboard.


 Treat the motherboard with care since it is very sensitive to static discharge. Remain grounded to avoid the release of static discharge by wearing a static bracelet.

- Carefully disconnect the LCD Screen ribbon cable away from its ZIF connector with your thumb and index finger. You must make sure to have your thumb and index finger cover as much of the ribbon's width and as close to the ZIF connector as possible without touching the motherboard while pulling the ribbon out. line.

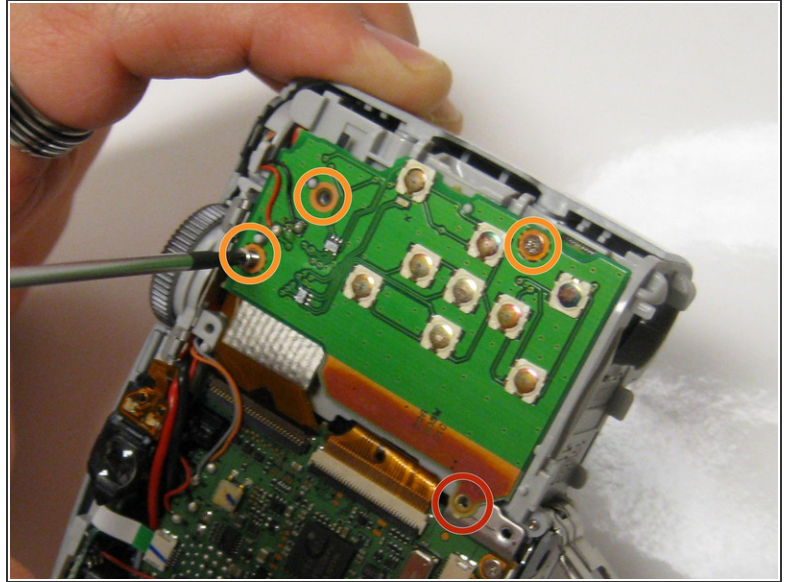
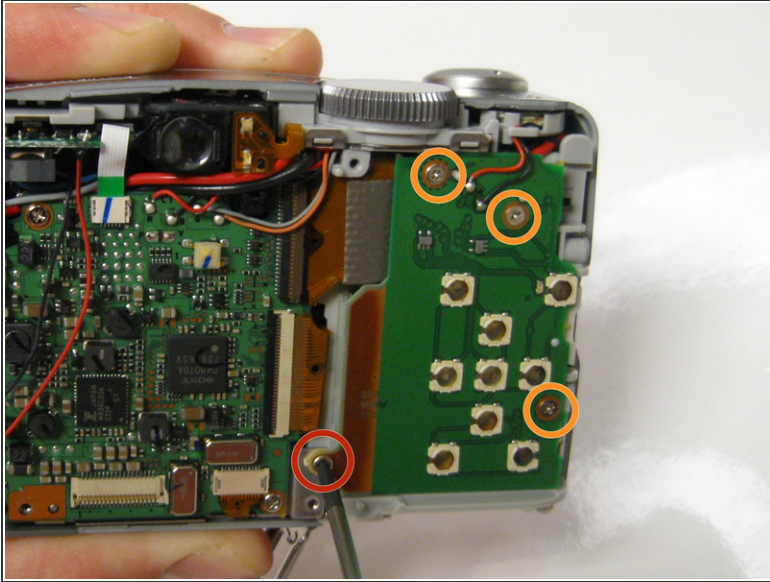
 Be careful to not rip the ribbon wire or the red and black power wires when pulling the LCD screen out.

- Use the soldering iron to separate the black and red power wires from the motherboard.

 Make sure to note the location of where each wire was attached to. The black wire is the negative power wire and the red wire is the positive power wire.

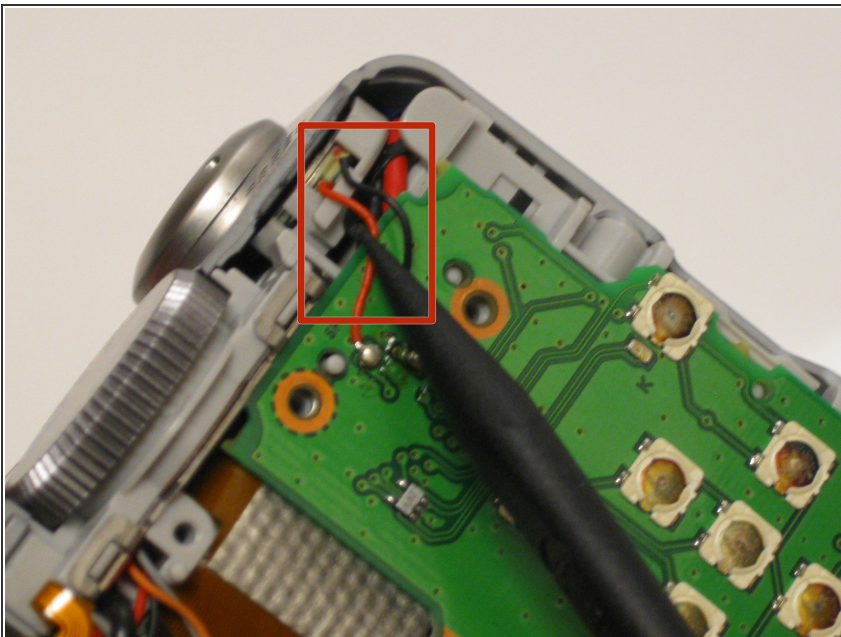
 Not knowing where the power wires go could disrupt the power distribution and lead to power outages and damage to the motherboard.

Step 7



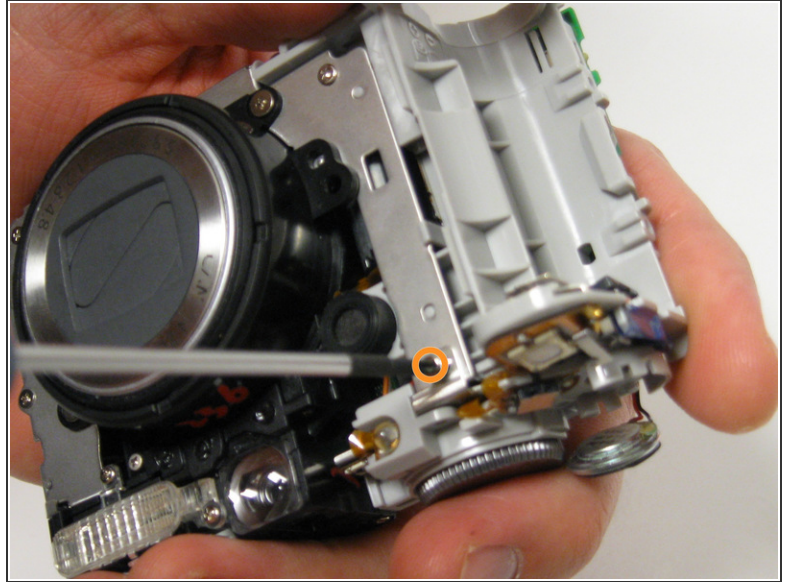
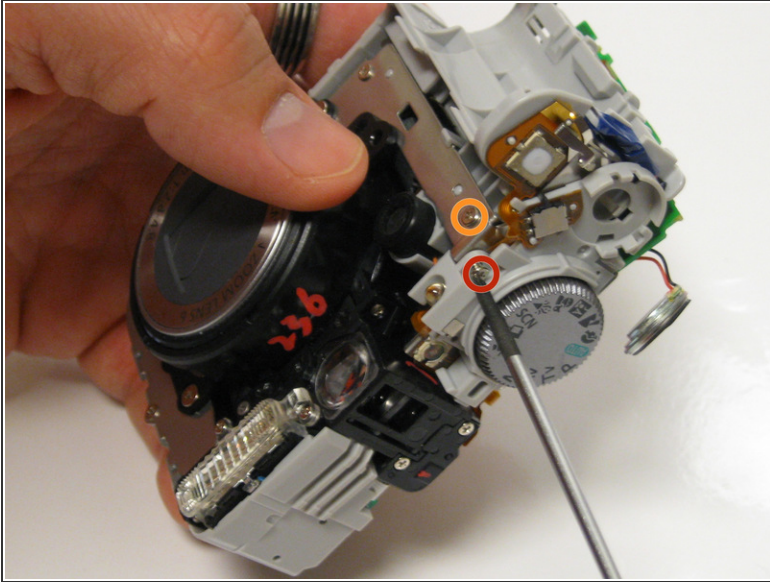
- Remove the 3 mm Phillips head screw that is between the circuit boards.
- ☑ The other screw that was the 4 mm screw that was between the circuit boards was taken off during step five of this guide.
- Remove the next three 3.5 mm Phillips head screws that are on the button circuit board.

Step 8



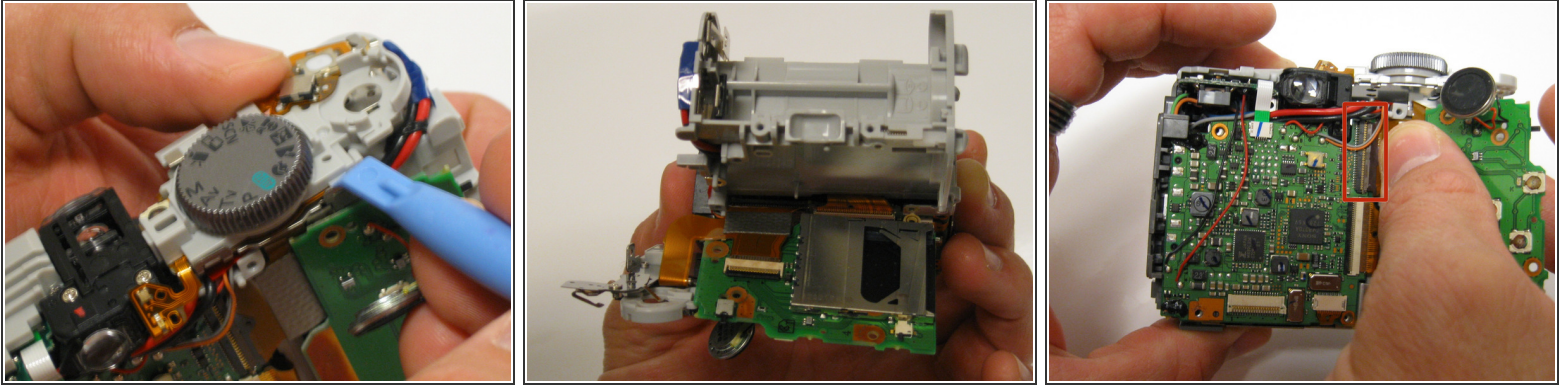
- Use the spudger to unclip both wires from underneath the shutter button and settings dial housing unit.
- ⚠ Be careful not to apply too much force on wires with spudger because you may rip them off.

Step 9



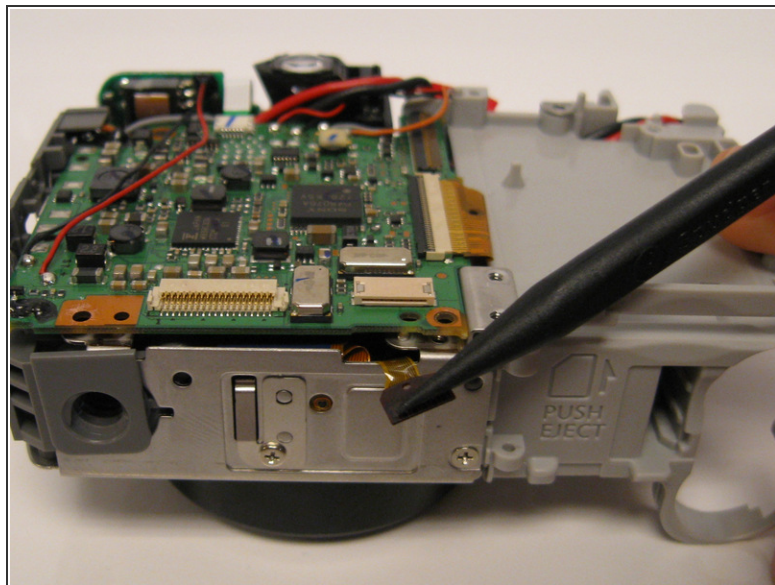
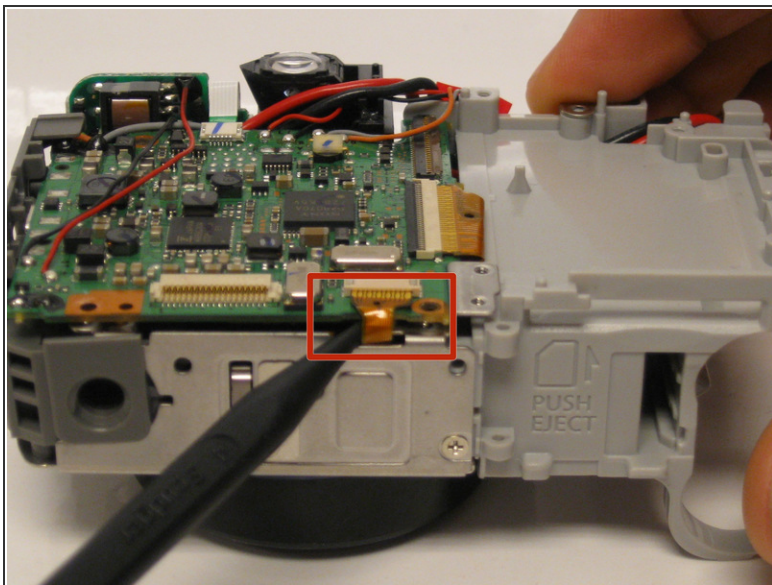
- Turn the camera over and unscrew 4.5 mm Phillips head screw that is by the Settings Dial.
- From the metal frame, unscrew the 3 mm Phillips screw head to begin to detachment of the battery housing unit.

Step 10



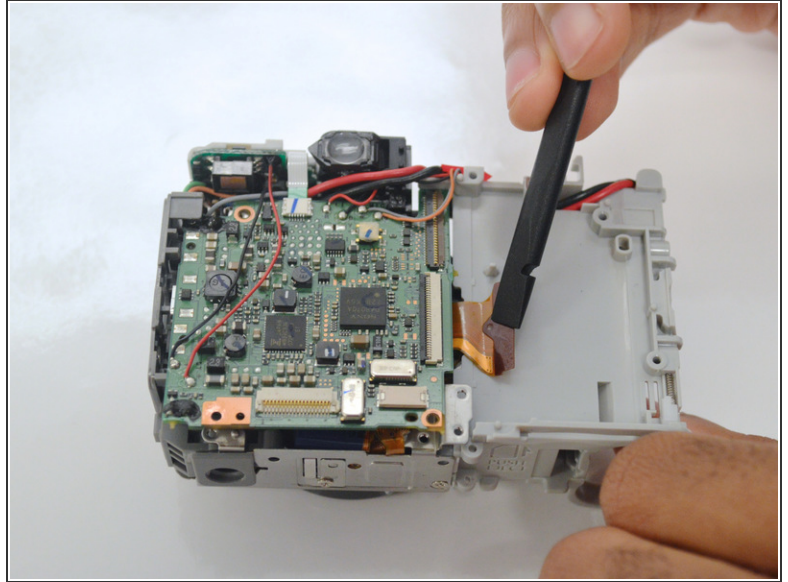
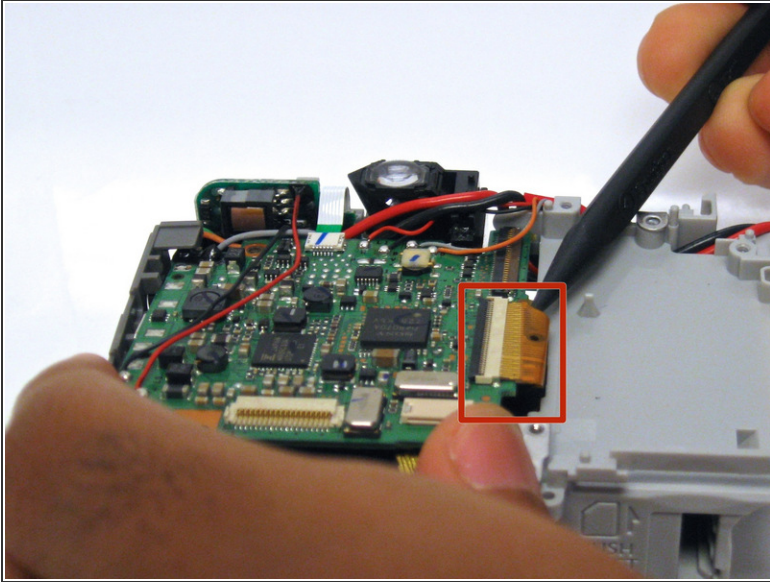
- Use the plastic opening tool to begin separating the user button circuit board from the shutter button and settings dial housing unit.
 - Carefully disconnect the ribbon cable that is attached to the user buttons circuit board away from the ZIF connector that is attached to the motherboard with your thumb and index finger. Get as close to the ZIF connector as possible without touching the motherboard.
- ⚠ Be careful not to rip the ribbon cable out of the ZIF connector when removing.
- Remove the user button circuit board.

Step 11



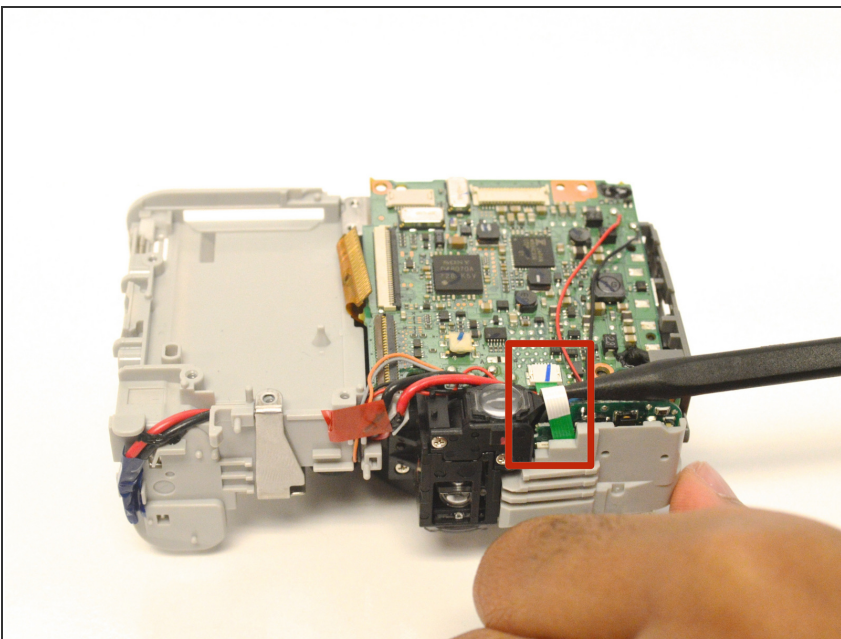
- Use the spudger to carefully remove the attached ribbon cable.
- ⓘ Alternate on both sides of ribbon cable to remove evenly from the ZIF connector every time you use a spudger.
- ⚠ Be careful not to rip ribbon cable attached to motherboard out of the ZIF connector.

Step 12



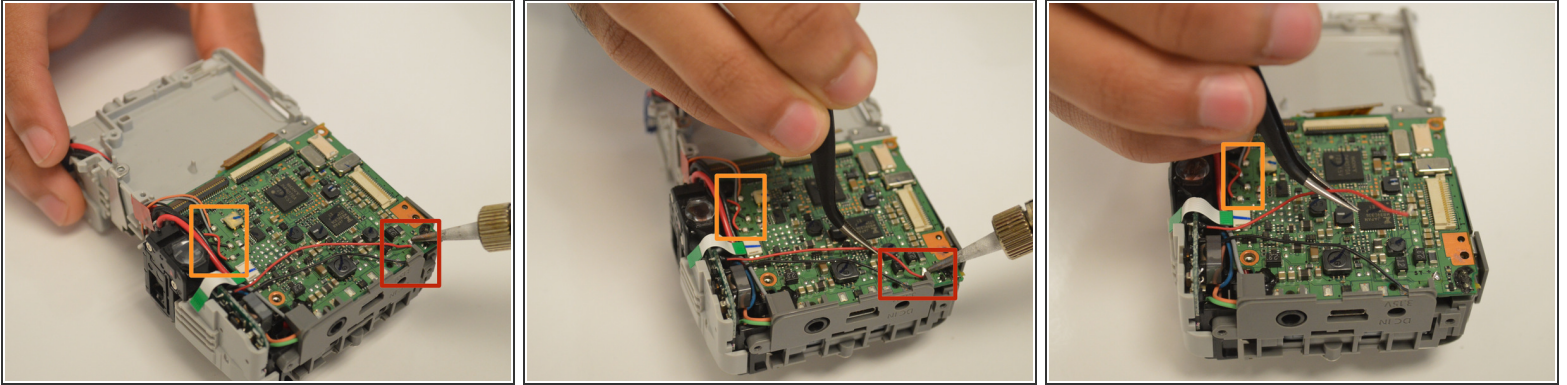
- Next, use the spudger to remove the pictured ribbon from the ZIF connector.
- ⓘ Alternate on both sides of ribbon cable to remove evenly from the ZIF connector every time you use a spudger.
- ⚠ Be careful not to rip the ribbon cable out of the ZIF connector while removing.

Step 13



- Next, use the spudger to remove the green ribbon from the attached ZIF connector.
- ⓘ Alternate on both sides of ribbon cable to remove evenly from the ZIF connector every time you use a spudger.
- ⚠ Be careful not to rip the ribbon cable out of the ZIF connector while removing.

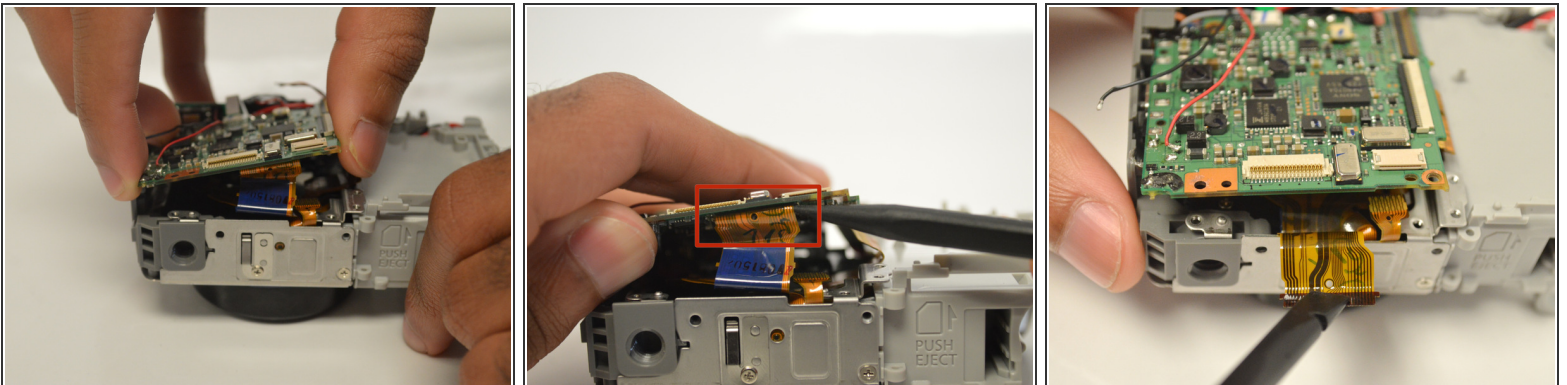
Step 14



- Unsolder all of the wires attached to the motherboard and move them aside with the tweezers.

⚠ Be observant of where you are soldering because you can easily disrupt the power distribution.

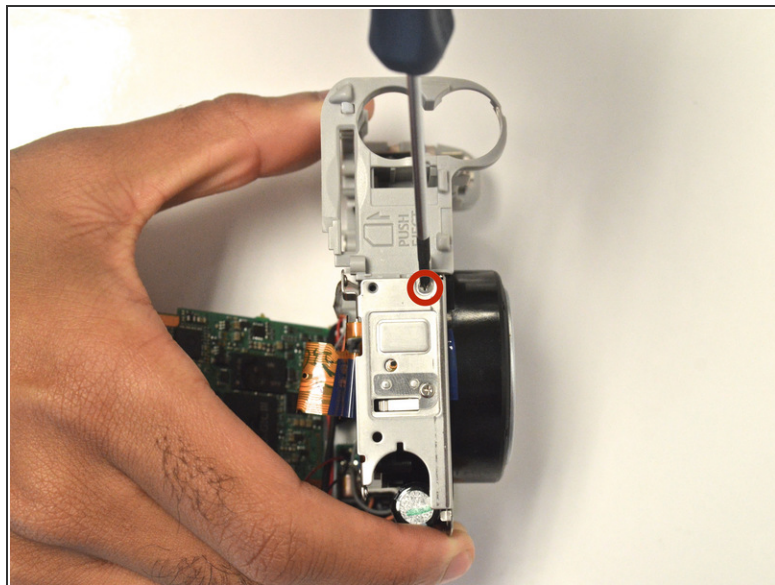
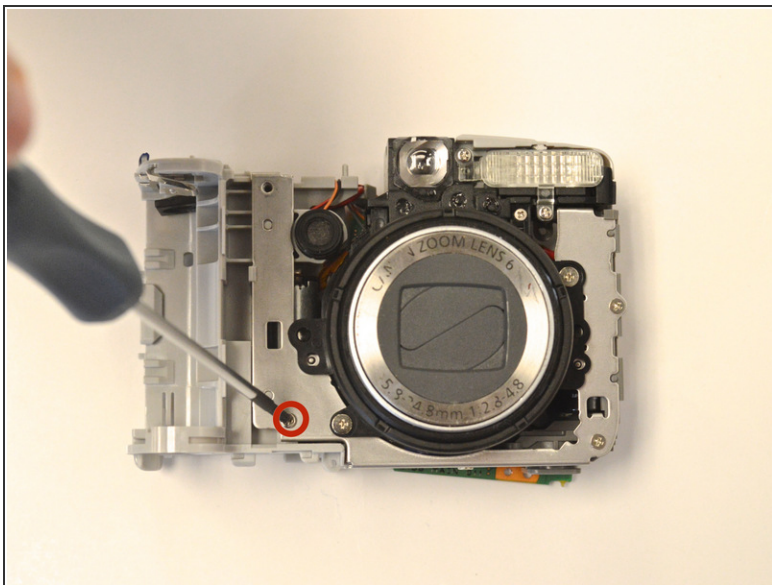
Step 15



- After all of ribbons have been disconnected, gently lift the motherboard to expose the ribbon cable that connects the motherboard to the lens.
- Use the spudger to remove the the ribbon cable attached to the motherboard. Be sure to alternate both sides of ribbon cable to evenly remove.

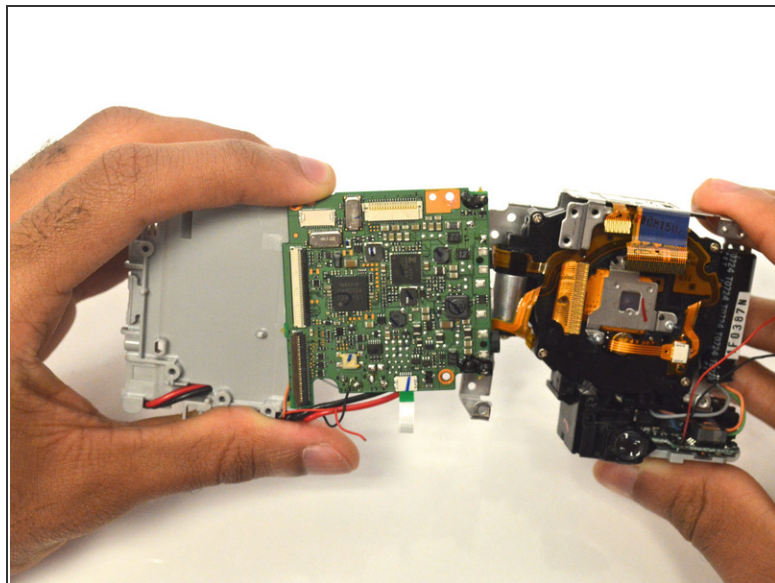
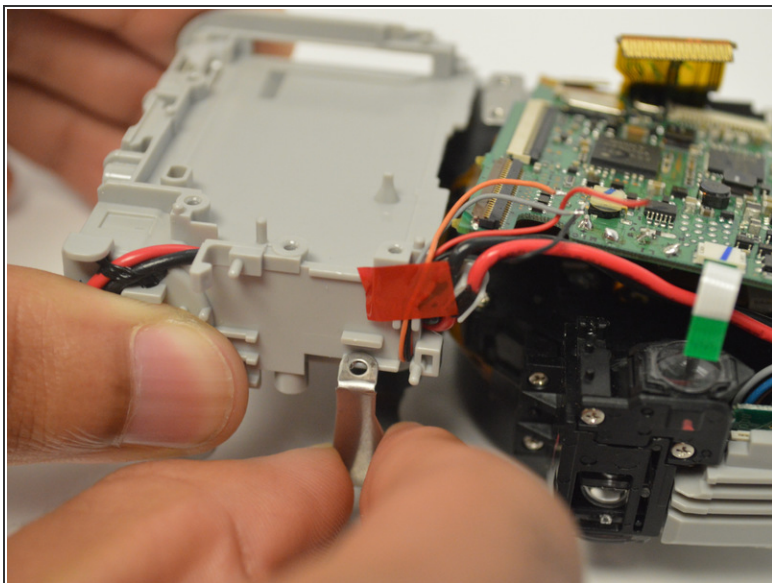
⚠ Be careful not to rip the ribbon cable out from the ZIF connector the ribbon cable is attached to.

Step 16




- With the lens facing up, remove the 3 mm phillips head screw that attaches the bottom of the battery housing unit to the lens.
- Turn the camera over so the bottom is now facing up to remove the 3 mm Phillips head screw to disassemble the battery housing unit from the camera.

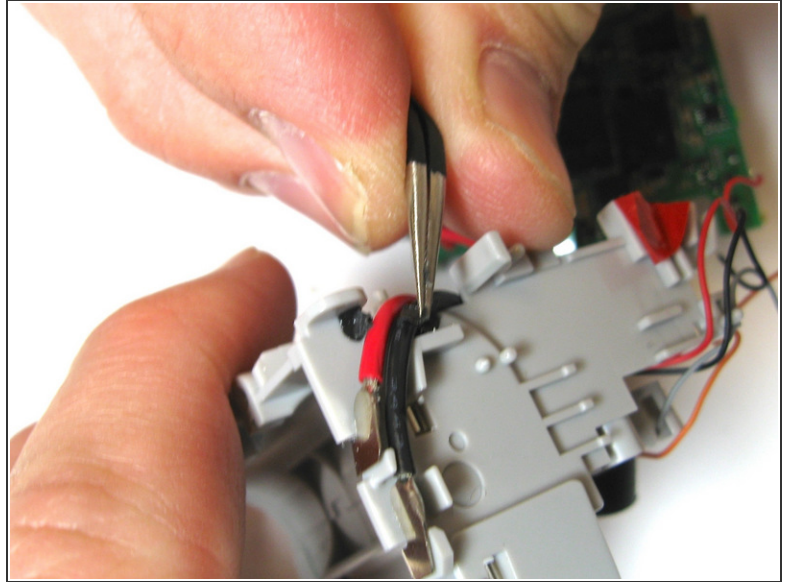
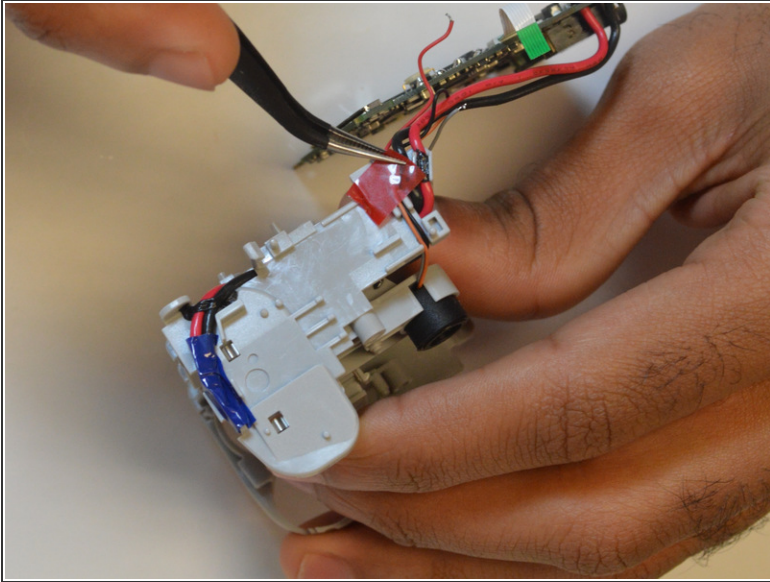
Step 17



- Remove the metal frame from battery housing unit manually.
- Separate the lens from the motherboard and put the lens housing unit aside for later use.

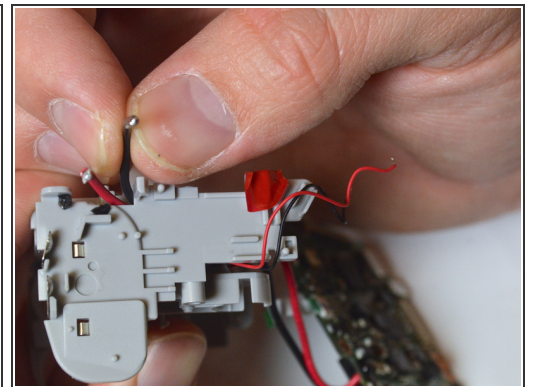
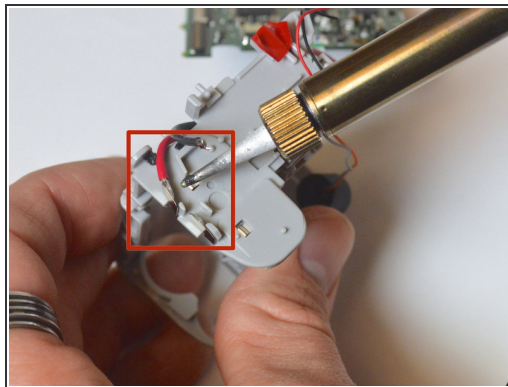
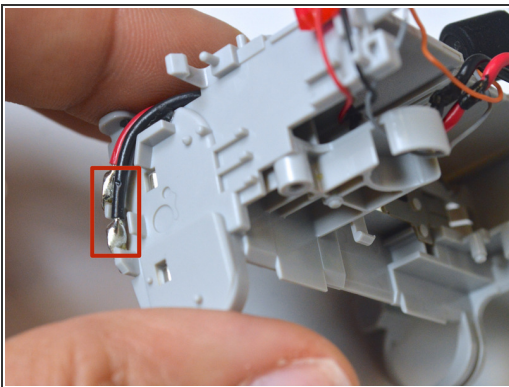
 Be careful not to apply too much force when pulling apart the metal frame. You may cause damage to nearby wires and/or stretch the metal frame.

Step 18



- Use the tweezers to remove the tape and rubber strap to begin unraveling the wires from the plastic hooks.

Step 19

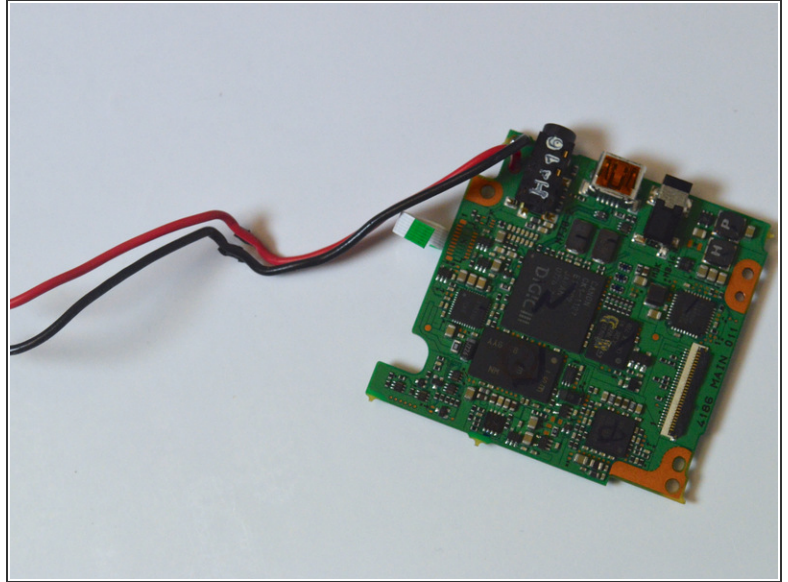
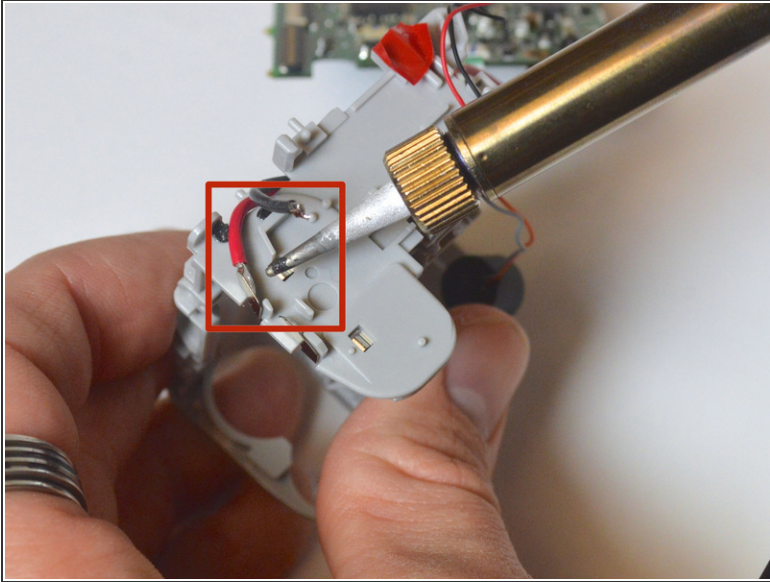


- Use the soldering iron to remove the red and black wires from the battery contacts.



Be aware of the placement of the red and black power wires during reassembly. Misplacement can cause further damage to you camera.

Step 20



- Finally, use the soldering iron once more to melt the wire contact points and detach the motherboard.

To reassemble your device, follow these instructions in reverse order.

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